

STARCH CONSUMPTION

TABLE I

PRELIMINARY ESTIMATES<sup>a</sup> OF 1964 CONSUMPTION OF STARCHES IN PRIMARY PAPER AND PAPERBOARD MANUFACTURE IN THE UNITED STATES, INCLUDING PIGMENT COATING

<u>Type of Starch</u>	<u>Consumption, million pounds</u>
Corn	592.0 <sup>b</sup>
Milo	26.5
Tapioca	121.0
Potato	51.4
Wheat	9.0
Other dry milled	2.9
Oxidized	187.8
Hydroxyethylated	133.4
Acid hydrolyzed	45.7
Cationic	31.6
Dextrinized	11.8
Other modified	29.3
Total natural	802.8
Total modified	439.6
Grand total for primary papermaking <sup>c</sup>	1242.4

<sup>a</sup>These estimates are projections based on reports from companies representing more than 90% of the U.S. capacity for the manufacture of paper, paperboard and wet machine board as listed in the 1964 edition of "Lockwood's Directory of the Paper and Allied Trades". The table does not include data from converters, or manufacturers of building products, insulation, etc.

<sup>b</sup>It is probable that some respondents were unable to segregate the types of starch consumed, and reported such purchases as "cornstarch".

<sup>c</sup>Reports of starches used in converting by primary manufacturers are still incomplete, but the total is believed to exceed 320 million pounds.

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TABLE II

PRELIMINARY ESTIMATES<sup>a</sup> OF PIGMENT BINDER CONSUMPTION IN 1964 FOR ON-MACHINE AND OFF-MACHINE COATING OF PAPER AND PAPERBOARD IN THE UNITED STATES (EXCLUDING PIGMENTED SIZING)

<u>Pigment Binders</u>	<u>Consumption, million pounds, dry basis</u>
Starch	
Purchased unmodified	> 200.0
Purchased modified	> 125.0
Casein <sup>b</sup>	36.6
Soy protein	33.7
Latexes	
Styrene/butadiene, SB (50% or more styrene)	59.6
Polyvinyl acetate	18.0
Acrylic	10.8
Polyvinyl alcohol <sup>b</sup>	2.0
Other binders	1.6

<sup>a</sup>These estimates are projections based on reports from companies representing more than 90% of the U.S. capacity for the manufacture of paper, paperboard and wet machine board as listed in the 1964 edition of "Lockwood's Directory of the Paper and Allied Trades". The table does not include data from converters, or manufacturers of building products, insulation, etc.

<sup>b</sup>Casein purchases for non-binder applications amounted to 0.6 million pounds. Information was not requested for non-binder applications of polyvinyl alcohol, but voluntary reports amounted to 0.8 million pounds.

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TABLE III

PRELIMINARY ESTIMATES<sup>a</sup> OF LATEX CONSUMPTION IN 1964 BY PRIMARY PAPER AND PAPERBOARD MANUFACTURERS IN THE UNITED STATES, EXCLUDING PIGMENT BINDING APPLICATIONS.

<u>Latex</u>	<u>Consumption</u> <u>million pounds, dry basis</u>
Nitrile	8.7
Styrene/butadiene, SBR (less than 50% styrene)	7.4
Styrene/butadiene, SB (50% or more styrene)	5.7
Neoprene	4.5
Acrylic	3.0
Polyvinyl acetate	1.5
Natural rubber	0.2
Other latexes	1.5

<sup>a</sup>These estimates are projections based on reports from companies representing more than 90% of the U.S. capacity for the manufacture of paper, paperboard and wet machine board as listed in the 1964 edition of "Lockwood's Directory of the Paper and Allied Trades". The table does not include data from converters, or manufacturers of building products, insulation, etc.

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